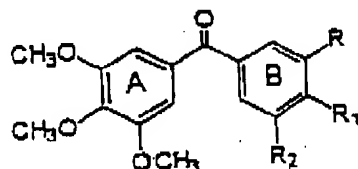


**CLAIM LISTING**

1. (Previously presented) A method of synthesizing phenstatin comprising the steps of :  
oxidizing 3-(~~tert~~-butyl dimethylsilyl)oxy-4-methoxybenzaldehyde with potassium permanganate to form the corresponding carboxylic acid;  
converting said carboxylic acid to the corresponding acid chloride;  
treating said acid chloride with the lithium derivative obtained from 3,4,5-trimethoxybenzene and t-butyllithium to form a protected product; and  
deprotecting said protected product to form phenstatin.
2. (Previously presented) A method of synthesizing phenstatin prodrug comprising the steps of:  
phosphorylating phenstatin with dibenzylphosphite in the presence of bromodichloromethane to form a phosphate ester;  
cleaving the benzyl groups from said phosphate ester by means of catalytic hydrogenolysis; and  
reacting the cleaved phosphate ester with sodium methoxide to produce the phenstatin sodium phosphate prodrug.
3. (Previously presented) A method of inhibiting cancer cell growth and tubulin polymerization in an environment inflicted therewith comprising: introducing into said environment a pharmaceutically acceptable carrier and a small but effective amount of phenstatin prodrug.

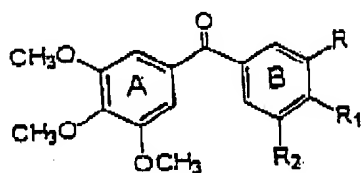
SECOND PRELIMINARY AMENDMENT  
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4. (Currently Amended) Phenstatin prodrugs and derivatives thereof having the structure:



wherein when R=H and R<sub>1</sub> = OCH<sub>3</sub>, R<sub>2</sub> is OPO<sub>3</sub>Na<sub>2</sub> or OCOCH<sub>3</sub> and when R=R<sub>2</sub>, R<sub>2</sub> is OCH<sub>3</sub>, CH<sub>3</sub>, Cl or F and R<sub>1</sub> is H.

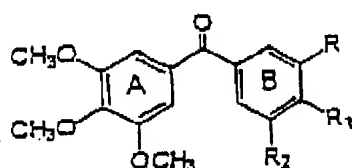
5. (Previously presented) A method of inhibiting human cancer cell growth in a host inflicted therewith comprising administering to said host in a pharmaceutically acceptable carrier a small but effective amount of a compound selected from the group consisting of phenstatin, phenstatin prodrug and the derivatives thereof having the structure



wherein when R=H and R<sub>1</sub>=OCH<sub>3</sub>, R<sub>2</sub> is OPO<sub>3</sub>Na<sub>2</sub>, OCOCH<sub>3</sub> or OCH<sub>3</sub> and when R=R<sub>2</sub>, R<sub>2</sub> is OCH<sub>3</sub>, CH<sub>3</sub>, Cl or F and R<sub>1</sub> is H and when R<sub>1</sub>= R<sub>2</sub>, R<sub>2</sub> is OCH<sub>3</sub> and R is H.

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6. (Previously presented) A method of inhibiting human cancer cell growth in a host inflicted therewith comprising administering to said host in a pharmaceutically acceptable carrier a small but effective amount of a compound selected from the group consisting of phenstatin, phenstatin prodrug and the derivatives thereof having the structure



wherein when  $R_1 = R_2$ ,  $R_2$  is  $OCH_2O$  and R is H.